

IMAGE SENSOR**Publication number:** JP2002231922 (A)**Publication date:** 2002-08-16**Inventor(s):** NAGATA HISASHI; NOGUCHI NOBORU; IZUMI YOSHIHIRO**Applicant(s):** SHARP KK**Classification:**

- international: **G01T1/00; G01T1/24; H01L27/14; H01L27/146; H01L29/786; H01L31/09; H04N1/028; H04N5/335; G01T1/00; H01L27/14; H01L27/146; H01L29/66; H01L31/08; H04N1/028; H04N5/335; (IPC1-7): H01L27/146; G01T1/00; G01T1/24; H01L27/14; H01L29/786; H01L31/09; H04N1/028; H04N5/335**

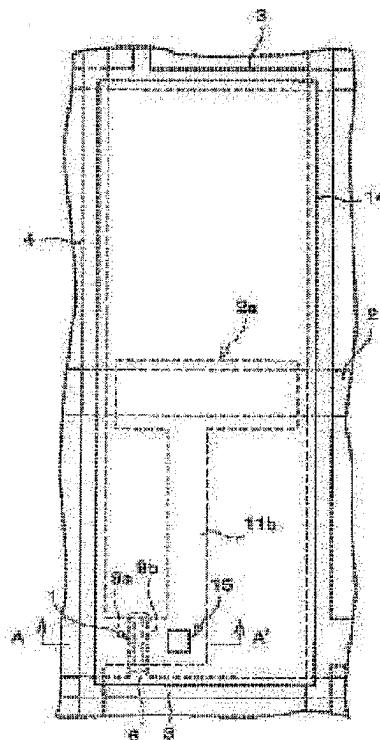
- European:

Application number: JP20010022355 20010130**Priority number(s):** JP20010022355 20010130**Also published as:**

JP3708440 (B2)

Abstract of JP 2002231922 (A)

PROBLEM TO BE SOLVED: To provide an image sensor for improving the S/N ratio by suppressing the capacitance between a signal line and a pixel electrode and preventing increase in noise and to obtain a reliable image signal. **SOLUTION:** The capacitance between the signal line 4 and the pixel electrode 14 is set to 1/100 or less of pixel capacitance 2a for retaining an electric charge collected by the pixel electrode 14 until the electric charge is read as an image signal, thus preventing crosstalk where the electric charge is superposed to the image signal being read as noise over a dynamic range of approximately 100 required for the image sensor at the minimum even if noise is generated by the capacitance between the signal line 4 and the pixel electrode 14.



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